

Delrin AF[®]

Property	Units	Test Method ASTM	Delrin AF
Light transmittance	%	-	-
Refractive Index	%	-	-
Haze (initial)	%	-	-
Haze (24 days, 104 °F)	%	-	-
Specific Gravity	-	D792	-
Water Absorption (24 Hours)	%	D570	.2
Water Absorption (Saturation)	%	D570	.72
Tensile Strength (73 °F)	PSI	D638	7,600
Flexural Strength (73 °F)	PSI	D790	10,500
Compressive Strength (10% Deflection)	PSI	D695	13,000
Shear Strength (73 °F)	PSI	D732	8,000
Impact Strength, Notched Izod (73 °F)	Ft-lb./In.	D256	1
Elongation at Break (73 °F)	%	D638	22
Tensile Modulus of Elasticity (73 °F)	PSI	D638	420,000
Flexural Modulus of Elasticity (73 °F)	PSI	D790	340,000
Hardness - Rockwell & Burell (73 °F)	Various Scales	D785	R118
Density	Lbs./in	-	0.055
Coefficient of Friction	None	-	0.14
Wear Factor (K)	In -min./Ft.-Lb.-Hr.	-	65
Limiting PV	PSI FPM	-	11,500
Abrasion Resistance Index	None	-	-
Coefficient of Linear Thermal Expansion	In/In/ F	D696	5.08 x 10 ⁻⁵
Continuous Service Temperature - In Air (max.)	F	-	180
Deflection Temperature (264 PSI)	F	D648	244
Melting Point	F	D789	347
Deformation Under Load (2000 PSI, 122 °F)	%	D621	.6
Dielectric Strength	Volts/Mil	D149	400
Volume Resistivity	Ohm-CM	D257	3 x 10 ¹⁶
Dielectric Constant (60 Hz)	None	D150	-
Dielectric Constant (1 kHz)	None	D150	3.1
Dielectric Constant (1 MHz)	None	D150	3.1

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability. All trade and patent rights should be observed. All rights reserved. These values represent the average from a number of individual measurements. Unless otherwise stated test results apply to sample pieces. Tests are carried out in a standard laboratory atmosphere according to ASTM.

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